



PPI-119

1

SEQUENCE LISTING

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Phillips, Kathryn
Hannig, Gerhard

<120> ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF

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<140> 09/847,946
<141> 2001-05-02

<150> 60/201,261
<151> 2000-05-02

<150> 09/643,260
<151> 2000-08-22

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<170> PatentIn Ver. 2.0

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attgccatca agcagtgccg gcaggagctc agcccccgga accgagagcg gtggtgcctg 180
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atcatccatc gggatctaaa gccagaaaac atcgtcctgc agcaaggaga acagaggtta 480
atacacaaaa ttattgacct aggatatgcc aaggagctgg atcagggcag tctttgcaca 540
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gacgacctag aggagcaagc aagggagctg tacaggagac taagggaaaa acctcgagac 1740
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aatgccatac aggacactgt gagggaacaa gaccagagtt tcacggccct agactggagc 2220
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<223> may = Asp, Arg, Gln, Ile, Lys, Trp, Phe, Gln, Asn, Arg, Arg, Met, Lys, Trp, Lys or Lys

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<223> Description of Artificial Sequence:NBD peptides

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5

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| 1 | | | | 5 | | | | | 10 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Leu | Asp | Trp | Ser | Trp | Leu | Gln |
| 1 | | | | 5 | | | | |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Asp | Trp | Ser | Trp | Leu | Gln | Thr |
| 1 | | | | 5 | | | | |

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| Leu | Asp | Trp | Ser | Trp | Leu | Gln |
| 1 | | | | 5 | | |

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<400> 38

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|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Trp | Ser | Trp | Leu | Gln | Thr |
| 1 | | | | 5 | | | |

<210> 39

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<210> 40

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Leu Asp Trp Ser Trp Ala
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Leu Asp Phe Ser Trp Leu
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<210> 43

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<400> 43

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| Arg | Arg | Met | Lys | Trp | Lys | Lys | Leu | Asp | Trp | Ser | Trp |
| 1 | | | | 5 | | | | | 10 | | |

<210> 44

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<400> 44

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| Leu | Asp | Trp | Glu | Trp | Leu |
| 1 | | | | 5 | |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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<211> 9

<212> PRT

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| Ala | Asp | Trp | Ser | Trp | Leu | Gln | Thr | Glu |
| 1 | | | | 5 | | | | |

<210> 48

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:NEMO binding
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<210> 50

<211> 9

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Ala Asp Trp Ser Trp Leu Gln Thr Glu
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<210> 51

<211> 6

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<223> Description of Artificial Sequence:NEMO binding
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<210> 52

<211> 10

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| Thr | Ala | Ala | Asp | Trp | Ser | Trp | Leu | Gln | Thr |
| 1 | | | | 5 | | | | | 10 |

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<400> 53

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ala | Asp | Trp | Ser | Trp | Leu | Gln |
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<210> 54

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<223> Description of Artificial Sequence:NEMO binding sequence

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| 1 | | | | 5 | | |

<210> 56

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<400> 56

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| Ala | Asp | Trp | Ser | Trp | Leu | Gln | Thr |
| 1 | | | | 5 | | | |

<210> 57

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Ala Leu Asp Trp Ser Trp Ala Gln Thr Glu
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Leu Asp Trp Ser Trp Ala Gln Thr Glu
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Thr Ala Leu Asp Trp Ser Trp Ala
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<210> 65

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Ala Leu Asp Trp Ser Trp Ala Gln Thr
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Leu Asp Trp Ser Trp Ala Gln
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<400> 67

Leu Asp Trp Ser Trp Ala Gln Thr
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Thr Ala Ala Asp Trp Ser Trp Ala Gln Thr Glu
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<210> 69

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<210> 71

<211> 10

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<400> 71

Ala Ala Asp Trp Ser Trp Ala Gln Thr Glu
1 5 10

<210> 72

<211> 9

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<400> 72

Ala Asp Trp Ser Trp Ala Gln Thr Glu
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<210> 73

<211> 6

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<400> 73

Ala Asp Trp Ser Trp Ala
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Thr Ala Ala Asp Trp Ser Trp Ala Gln Thr
1 5 10

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Thr Ala Ala Asp Trp Ser Trp Ala Gln

1

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<210> 76

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1

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<400> 77

Ala Asp Trp Ser Trp Ala Gln

1

5

<210> 78

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Ala Asp Trp Ser Trp Ala Gln Thr

1

5

<210> 79

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Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu
1 5 10

<210> 80

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<212> PRT

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<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 80

Leu Asp Phe Ser Trp Leu Gln Thr Glu
1 5

<210> 81

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 81

Thr Ala Leu Asp Phe Ser Trp Leu
1 5

<210> 82

<211> 10

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<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 82

Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu
1 5 10

<210> 83

<211> 9

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 83

Leu Asp Phe Ser Trp Leu Gln Thr Glu
1 5

<210> 84

<211> 6

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding sequence

<400> 84

Leu Asp Phe Ser Trp Leu
1 5

<210> 85

<211> 10

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding sequence

<400> 85

Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr
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<211> 9

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<400> 86

Thr Ala Leu Asp Phe Ser Trp Leu Gln
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<210> 87

<211> 9

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<223> Description of Artificial Sequence:NEMO binding sequence

<400> 87

Ala Leu Asp Phe Ser Trp Leu Gln Thr
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<210> 88

<211> 7

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding sequence

<400> 88

Leu Asp Phe Ser Trp Leu Gln
1 5

<210> 89

<211> 8

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<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 89

Leu Asp Phe Ser Trp Leu Gln Thr
1 5

<210> 90

<211> 11

<212> PRT

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sequence

<400> 90

Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu
1 5 10

<210> 91

<211> 9

<212> PRT

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<220>

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sequence

<400> 91

Leu Asp Tyr Ser Trp Leu Gln Thr Glu
1 5

<210> 92

<211> 8

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sequence

<400> 92

Thr Ala Leu Asp Tyr Ser Trp Leu
1 5

<210> 93

<211> 10

<212> PRT

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sequence

<400> 93

Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu
1 5 10

<210> 94

<211> 9

<212> PRT

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sequence

<400> 94

Leu Asp Tyr Ser Trp Leu Gln Thr Glu
1 5

<210> 95

<211> 6

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sequence

<400> 95

Leu Asp Tyr Ser Trp Leu
1 5

<210> 96

<211> 10

<212> PRT

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sequence

<400> 96

Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr
1 5 10

<210> 97

<211> 9

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 97

Thr Ala Leu Asp Tyr Ser Trp Leu Gln
1 5

<210> 98

<211> 9

<212> PRT

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sequence

<400> 98

Ala Leu Asp Tyr Ser Trp Leu Gln Thr
1 5

<210> 99

<211> 7

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sequence

<400> 99

Leu Asp Tyr Ser Trp Leu Gln
1 5

<210> 100

<211> 8

<212> PRT

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sequence

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Leu Asp Tyr Ser Trp Leu Gln Thr
1 5

<210> 101

<211> 11

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<220>

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sequence

<400> 101

Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu
1 5 10

<210> 102

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 102

Leu Asp Trp Ala Trp Leu Gln Thr Glu
1 5

<210> 103

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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sequence

<400> 103

Thr Ala Leu Asp Trp Ala Trp Leu
1 5

<210> 104

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 104

Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu
1 5 10

<210> 105

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 105

Leu Asp Trp Ala Trp Leu Gln Thr Glu
1 5

<210> 106

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 106

Leu Asp Trp Ala Trp Leu
1 5

<210> 107

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 107

Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr
1 5 10

<210> 108

<211> 9

<212> PRT

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sequence

<400> 108

Thr Ala Leu Asp Trp Ala Trp Leu Gln
1 5

<210> 109

<211> 9

<212> PRT

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sequence

<400> 109

Ala Leu Asp Trp Ala Trp Leu Gln Thr
1 5

<210> 110

<211> 7

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sequence

<400> 110

Leu Asp Trp Ala Trp Leu Gln
1 5

<210> 111

<211> 8

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 111

Leu Asp Trp Ala Trp Leu Gln Thr
1 5

<210> 112

<211> 11

<212> PRT

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<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 112

Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu
1 5 10

<210> 113

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 113

Leu Asp Trp Glu Trp Leu Gln Thr Glu
1 5

<210> 114

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 114

Thr Ala Leu Asp Trp Glu Trp Leu
1 5

<210> 115

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 115

Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu
1 5 10

<210> 116

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 116

Leu Asp Trp Glu Trp Leu Gln Thr Glu
1 5

<210> 117

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 117

Leu Asp Trp Glu Trp Leu
1 5

<210> 118

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 118

Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr
1 5 10

<210> 119

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 119

Thr Ala Leu Asp Trp Glu Trp Leu Gln
1 5

<210> 120

<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 120
Ala Leu Asp Trp Glu Trp Leu Gln Thr
1 5

<210> 121
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 121
Leu Asp Trp Glu Trp Leu Gln
1 5

<210> 122
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:NEMO binding
sequence

<400> 122
Leu Asp Trp Glu Trp Leu Gln Thr
1 5

<210> 123
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:membrane
translocation domain

<400> 123
Arg Arg Met Lys Trp Lys Lys
1 5

<210> 124
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:membrane
translocation domain

<400> 124

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Arg | Lys | Lys | Arg | Arg | Gln | Arg | Arg | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 125

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 125

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Arg | Lys | Lys | Arg | Arg | Gln | Arg | Arg | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 126

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 126

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Arg | Lys | Ala | Arg | Arg | Gln | Ala | Arg | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 127

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 127

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Arg | Lys | Ala | Arg | Arg | Gln | Ala | Arg | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 128

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 128

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Arg | Ala | Ala | Arg | Arg | Ala | Ala | Arg | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 129

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 129

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg
1 5 10

<210> 130

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:membrane
translocation domain

<400> 130

Arg Arg Met Lys Trp Lys Lys
1 5

<210> 131

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 131

Arg Arg Met Lys Trp Lys Lys Thr Ala Leu Asp Trp Ser Trp Leu Gln
1 5 10 15

Thr Glu

<210> 132

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 132

Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu
1 5 10

<210> 133

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 133

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp
1 5 10 15

Ser Trp Leu Gln Thr Glu
20

<210> 134

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 134

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp
1 5 10 15

Ser Trp Leu Gln Thr Glu
20

<210> 135

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 135

Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln
1 5 10 15

Thr Glu

<210> 136

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 136

Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln
1 5 10 15

Thr Glu

<210> 137

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 137

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp
1 5 10 15Ser Trp Leu Gln Thr Glu
20

<210> 138

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 138

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp
1 5 10 15Ser Trp Leu Gln Thr Glu
20

<210> 139

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 139

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Thr Ala Leu Asp Trp
1 5 10 15Ser Trp Leu Gln Thr Glu
20

<210> 140

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 140

Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu
1 5 10

<210> 141

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 141

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Arg | Lys | Lys | Arg | Arg | Gln | Arg | Arg | Arg | Leu | Asp | Trp | Ser | Trp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

Leu

<210> 142

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 142

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Arg | Lys | Lys | Arg | Arg | Gln | Arg | Arg | Arg | Leu | Asp | Trp | Ser | Trp |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

Leu

<210> 143

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 143

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Met | Lys | Trp | Lys | Lys | Leu | Asp | Trp | Ser | Trp | Leu |
| 1 | | | | 5 | | | | | 10 | | | |

<210> 144

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 144

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Met | Lys | Trp | Lys | Lys | Leu | Asp | Trp | Ser | Trp | Leu |
| 1 | | | | 5 | | | | | 10 | | | |

<210> 145

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 145

Arg Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu
1 5 10

<210> 146

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 146

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp
1 5 10 15

Leu

<210> 147

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 147

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp
1 5 10 15

Leu

<210> 148

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:anti-inflammatory compound

<400> 148

Arg Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu
1 5 10

<210> 149

<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 149
Arg Arg Arg Arg Arg Arg
1 5

<210> 150
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 150
Arg Arg Arg Arg Arg Arg
1 5

<210> 151
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 151
Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 152
<211> 9
<212> PRT
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 152
Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 153
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 153

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 154

<211> 11

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 154

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 155

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 155

Arg Arg Arg Arg Arg Arg
1 5

<210> 156

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 156

Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 157

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 157

Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 158
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 158
Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 159
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 159
Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 160
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:mebrane translocation domain

<400> 160
Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10